Pocket Digital Thermometers 09.10

Pocket Digital Thermometers Product Sheet

Delivering test and C/R professionals Test the TPI advantage Convenient Affordable Accurate IP ratings for TPI Pocket Digital Thermometers are on the back page • 312C is waterproof 310C shown **TPI 306C** Api 310C for use in damp or **FEATURES** Reversible 78.5 HOLD wet environments · Compact and convenient head for best ~300°F/-50~150°C Quick response Easy-to-read, large LCD viewing Easy insertion into · Auto power off "Pete's" plugs with · Easy-to-read **310C FEATURE** · Data hold for hard to reach areas smallest diameter **Reverse LCD to gain** E SC LCD A306 protective rubber boot best viewing angle (3.1 mm)· Data Hold for offers protection from drops Insert small coin into · Data Hold for hard to hard to reach notch and gently pry reach areas while turning head to areas Auto power off new 180° viewing • 323 Chisel-Tip · Auto power off position. Shielded • 326 Needle-Tip wires keep head and • 329 Contact-Tip stem from separating. (no sheath) Head easily snaps back • 330C Chisel-Tip into original position. **APPLICATIONS** • 315C shown **HVACR** Rugged design withstands a 10' drop Ambient Air Magnetic clip perfect for air duct applications Calibrate Thermostats Waterproof Vents · Auto power off Compressor Heads Low battery indicator Registers • 3.1mm diameter stem for "Pete's" plug FOOD • **316C** same as the 315C but no Magnetic clips Grill & Surface 3-YEAR • 317C* with air tip CE **Temperatures** • 318* with chisel tip Serving Temperatures • 319* with contact tip **ELECTRICAL** 7101 315C 75.8 • 320C small diameter (1.6mm) Motor Temperatures Penetration-Tip Transformer *Thermometer body slightly different from picture. **Temperatures** All "C" version thermometers feature Auto Field Calibration. to +/- 2 F accuracy in less than 10 seconds in an ice water bath.

Turn over for
technical
information
and accessory
part numbers.

The Value Leader^{*}

Probe **Penetration** Chisel Contact Air Tips Need chisel tip for surface Measures three times faster Use for immersion and air: Samples air temperatures air response time will be temperatures. Penetration three times faster than than chisel tip. and/or air tips will not give an penetration or contact tips. slower than if using an accurate surface reading. actual air probe.

Pocket Digital Thermometers **Product Sheet** 09.10

Pocket Digital Thermometers

Delivering test a protessionals Test the TPI advantage



TECHNICAL SPECIFICATIONS AND ACCESSORIES

- Digital Multimeters
- Clamp Meters
- Hand-held Oscilloscopes
- Refrigerant & **Combustible Gas** Leak Detectors
- Temperature Testers
- BNC Coax Cable Connectors
- Test Leads
- Accessories

Test Products International, Inc.

Headquarters: 9615 SW Allen Blvd. Beaverton, OR 97005 USA 503-502-9197 Fax: 503-520-1225 info@tpi-thevalueleader.com

Test Products

International. Ltd. 342 Bronte St. South Unit 9 Milton, Ontario L9T 5B7 Canada 905-693-8558 Toll-Free: 866-693-8558 Fax: 905-693-0888 info@tpicanada.com

Test Products International Europe Ltd. Lonalev House **International Drive** Crawley, West Sussex **RH10 6AQ** UK Tel: +44 (0)1293 561212 Fax: +44 (0)1293813465 contactus@tpieurope.com

FEATURES	306C	310C	312C	315C	316C	317C	318	319	320C	323	326	329	3300
* IP rating	63	61	67	67	67	61	65	65	67	67	67	65	67
Тір Туре	penetration	penetration	penetration	penetration	penetration	air	chisel	contact	needle	chisel	needle	contact	chise
Tip Diameter at Sensor	0.15"	0.15"	0.12"	0.115"	0.115"	0.08	0.12"	0.24"	0.06"	0.12"	0.06	0.24"	0.12
	(3.8mm)	(3.8mm)	(3.1mm)	(2.9mm)	(2.9mm)	(1.9mm)	(3.1mm)	(6mm)	(1.6mm)	(3.1mm)	(1.6mm)	(6mm)	(3.1m
Stem Length	5"	5"	5"	2.8"	2.8"	2.8"	2.8"	2.8"	2.8"	4.9"	4.9"	4.9"	4.9'
	(127mm)	(127mm)	(127mm)	(71mm)	(71mm)	(71mm)	(71mm)	(71mm)	(71mm)	(125mm)	(125mm)	(125mm)	(125m
Field Calibration	•	•	•	•	•	•			•				•
Data Hold	•	•	•	•	•	•	•	•	•	•	•	•	•
°C/°F Switchable			•	•	•	•	•	•	•	•	•	•	•
Range													
Min. Temp°F	-40°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°
Min. Temp°C		-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°(
Max. Temp°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	550°F	550°
Max. Temp°C		150°C	150°C	150°C	150°C	150°C	150°C	150°C	150°C	150°C	150°C	288°C	288°
Accuracy													
°F	1%	±2°F	±2°F	±2°F	±2°F	±2°F	±2°F	±2°F	±1°F (32 to 158°F) ±2°F (<32 and >158)	±2°F	±2°F	±2°F	±2°F
°C		±1°C	±1°C	±1°C	±1°C	±1°C	±1°C	±1°C	± 0.5°C (0 to 70°C) ± 1°C (<0 and >70°C)	±1°C	±1°C	±1°C	±1°(
Resolution	0.1°C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F
Auto Off	•	•	•	•	•	•	•	•	•	•	•	•	•
Sample Time	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5s
Battery				All TPI	Digital Pocket	Thermomete	rs use an LR4	44 battery					

Centigrade versions 306CX

* IP Ratings

ngress Protection (IP) ratings are developed by the European Committee for Electro Technical Standardization and specify the environmental protection an enclosure provides Definitions for the IP ratings TPI products carry are:

- IP61 Totally protected against dust and against vertically falling drops of water e.g. condensation
- IP63 Totally protected against dust and against direct sprays of water up to 60° from the vertical.
 - Totally protected against dust and against low pressure jets of water from all directions; limited ingress.
- IP67 Totally protected against dust and protected against the effect of immersion between 15cm (6") and 1m (39")

How do I check calibration of my pocket thermometer?

ice and water, swirl the water around and

temperature should read close to 32°F.

Does the whole stem need to be immersed to get an accurate reading?

Place thermometer in a solution of crushed The sensor is in the tip of the probe and needs to be 1/2 inch into whatever you are TPI pocket digital thermometers. measuring.

What battery does my pocket thermometer use?

The LR44 button battery is used in

Auto field calibrate in ice water to achieve +/- 2°F accuracy



Easy to follow procedure:

1. Fill a plastic or metal container with crushed ice and add clean water to a depth of at least 4 inches. Stir the ice and water for 2 to 3 minutes prior to performing calibration to ensure the water is completely chilled. Make certain there is plenty of ice in the mixture and always use clean water. Distilled water works well. The temperature of an ice bath is approximately 32°F (0°C).

2. Insert the stainless steel shaft of the C series thermometer into the ice bath making sure at least one inch of the tip is immersed. Allow the reading on the thermometer to stabilize.



3. Press and hold the D-H/CAL button for approximately 8 seconds until "CAL" is displayed. "CAL" will display for approximately 2 seconds and then the C series thermometer will return to normal operation. Calibration is complete.